

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.:

10/659,286

Filing Date:

September 11, 2003

Applicant:

Min-Ho KIM et al.

Group Art Unit:

2631

Examiner:

Unknown

Title:

METHOD AND APPARATUS FOR PERFORMING CHANNEL EQUALIZATION IN COMMUNICATION

SYSTEMS

Attorney Docket:

2557-000161/US

U.S. Patent and Trademark Office 220 20th Street S. January 7, 2005

Customer Window Mail Stop Amendment Crystal Plaza Two, Lobby, Room 1B03

Arlington, VA 22202

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. \S 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. \(\subseteq \) Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

III.

IV.

U.S. Filing Date

	C. Because the present application was/is being filed after June 30, 2003, no copies the U.S. patents or U.S. patent application publications which are listed on the attach Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any forei patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.				
D. This is a PCT application in the entry of the National Phase in the United Scopy of the International Search Report is attached for the Examiner's informatic documents listed on the International Search Report are listed on the attached Fo for consideration by the Examiner and for listing on any patent resulting fi application. Since the International Search Report was from the US, EPO, or JPG authorities, copies of these references should have been supplied to the USPTO u trilateral agreement and are believed to be in the file of the above-identified app (MPEP 1893.03(g))					
	CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)				
	A. \(\sum \) Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).				
B. A concise explanation of the relevance of each patent, publication or o information listed that is not in the English language is as follows (see 37 C.F.I. 1.98(a)(3)):					
	1. See the attached foreign patent office communication from a counterpart				
	foreign application: 2. English translations are provided for: 3. Other: English Abstract is provided for JP 2001-196978				
	C. The following additional information is provided for the Examiner's consideration.				
	CROSS REFERENCE TO RELATED APPLICATION(S)				
A. The Examiner is advised that the following co-pending application(s) conta subject matter that may be related to the present application. By bringing this(tl application(s) to the Examiner's attention, Applicant(s) does(do) not waive confidentiality provisions of 35 U.S.C. § 122.					
	Serial No. Filing Date Art Unit				

V. THIS IDS IS BEING FILED UNDER

	A. 🔀	37 C.F.R. § 1.97(b): (check <u>only</u> one box)		
1. within three months of the filing date of a national application of continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(t) or certification is required.				
		2.		
		3. ☑ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).		
		4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.		
B. 37 C.F.R. § 1.97(c): (check <u>only</u> one box)				
before the mailing date of either any Final Office Action under 37 C. a Notice of Allowance under 37 C.F.R. § 1.311, or an action that other prosecution.				
		1. $\hfill \square$ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).		
		2. \square See the certification below. No fee is required.		
	C. 🔲	37 C.F.R. § 1.97(d):		
		after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.		
		1. \square See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).		

Page 4 of 5

The undersigned hereby certifies that: A. acach item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F. R. 1.704(d) below in section VII, if applicable; or B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. STATEMENT UNDER 37 CFR 1.704(d) VII. The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS. VIII. PAYMENT OF FEES (check only one box) A. A check in the amount of \$180.00 is enclosed for the above-identified fee. B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the aboveindicated fee. A duplicate copy of this paper is attached.

CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

VI.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Page 5 of 5

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

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Reston, Virginia 20195 (703) 668-8000

JAC/MJL:js

Enclosures:

Form PTO-1449(s) Documents

Foreign Search Report

Other:

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet I of I Sheet I of I Sheet I of I September 11, 2003 Class/ September 11, 2003 Class/ Subclass (If appropriate) Filing Date Name ATTORNEY DOCKET No. SERIAL NO. 2557-000161/US 10/659,286 APPLICANT Min-Ho KIM et al. FILING DATE September 11, 2003 Class/ Subclass (If appropriate) Filing Date

Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
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Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No
/TG/		2001-196978 A	07/19/2001	Japan		Abstract
-	-					

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)				
Ref. Desig.	Examiner's Initials			
	-			

Examiner:	/Temesghen Ghebretinsae/	Date Considered:	05/27/2008
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